



KACM LED

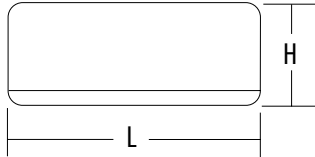
LED Surface Luminaire



CONTOUR

Specifications

Length:	17-1/2" (44.5 cm)
Width:	17-1/2" (44.5 cm)
Height:	7-1/8" (18.1 cm)
Weight (max):	36 lbs. (16.4 kg)



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The Contour® Series luminaires offer traditional square dayforms with softened edges for a versatile look that complements many applications.

The KACM LED combines the latest in LED technology with the familiar aesthetic of the Contour® Series for stylish, high-performance illumination that lasts. It is ideal for replacing 100-400W metal halide in surface/canopy lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: KACM LED 60C 700 50K R5 MVOLT SRM DDBXD

KACM LED						
Series	LEDs	Drive current	Color Temp ¹	Distribution	Voltage	Mounting
KACM LED	20C ¹ 30C ¹ 40C 60C	530 ¹ 530 mA 700 700 mA	30K 3000K 40K 4000K 50K 5000K	R2 Type II R3 Type III R4 Type IV R5 Type V R5VS Type V very short	MVOLT ² 120 ² 277 ² 208 ² 347 ¹ 240 ² 480 ¹	Shipped installed SRM Surface mount TC Through-wire conduit tee (Provided by others) Shipped separately³ YK Yoke/trunnion mount

Options	Finish (required)
Shipped installed SF Single fuse (120, 277, 347V) ² DF Double fuse (208, 240, 480V) ² PIR Ambient/motion sensor, 8-15' mounting height ⁴ PIRH Ambient/motionsensor, 15-30' mounting height ⁴ PIR3FC3V Motion/ambient sensor for 8-15' mounting heights and for typical applications requiring daylight harvesting and Title 24 compliance ^{4,5} PIRH3FC3V Motion/ambient sensor for 15-30' mounting heights and typical applications requiring daylight harvesting and Title 24 compliance ^{4,5}	Shipped separately³ WG Wire guard BL30 Bi-level switched dimming, 30% ^{6,7,8} BL50 Bi-level switched dimming, 50% ^{6,7,8} HS Houseside shield DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

Accessories

Ordered and shipped separately.

KACMYK DDBXD U	Yoke/trunnion accessory (specify finish)
KACWG U	Wire guard accessory

NOTES

- 20C or 30C LED are not available with 530 Drive current and 347V or 480V.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Also available as a separate accessory; see Accessories information at left.
- PIR & PIR3FC3V specifies the Acuity Controls **SBGR 10 ODP** motion/ambient sensor, the PIRH & PIRH3FC3V specifies the Acuity Controls **SBGR 6 ODP** motion/ambient sensor.
- PIR3FC3V and PIRH3FC3V are not available with bi-level, PN, or DCR. They all use the "DCM" module which requires the low voltage OEX motion sensor that only senses motion.
- Requires an additional switched circuit.
- Dimming driver standard. MVOLT only.
- Not available with PIR3FC3V and PIRH3FC3V.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
20C (20 LEDs)	530 mA	35W	R2	4,140	1	0	1	118	4,446	1	0	1	127	4,473	1	0	1	128
			R3	4,123	1	0	1	118	4,427	1	0	1	126	4,455	1	0	1	127
			R4	4,128	1	0	1	118	4,433	1	0	1	127	4,461	1	0	1	127
			R5	4,381	2	0	1	125	4,705	2	0	1	134	4,734	2	0	1	135
			R5VS	4,397	2	0	0	126	4,721	2	0	0	135	4,751	2	0	0	136
	700 mA	46W	R2	5,271	1	0	1	115	5,660	1	0	1	123	5,696	1	0	1	124
			R3	5,250	1	0	2	114	5,637	1	0	2	123	5,672	1	0	2	123
			R4	5,256	1	0	2	114	5,644	1	0	2	123	5,679	1	0	2	123
			R5	5,578	3	0	1	121	5,990	3	0	1	130	6,027	3	0	1	131
			R5VS	5,598	2	0	0	122	6,011	2	0	0	131	6,049	2	0	0	131
30C (30 LEDs)	530 mA	53W	R2	6,166	1	0	2	116	6,621	1	0	2	125	6,663	1	0	2	126
			R3	6,141	1	0	2	116	6,594	1	0	2	124	6,635	1	0	2	125
			R4	6,148	1	0	2	116	6,602	1	0	2	125	6,643	1	0	2	125
			R5	6,525	3	0	1	123	7,007	3	0	1	132	7,051	3	0	1	133
			R5VS	6,548	2	0	0	124	7,031	2	0	0	133	7,075	2	0	0	133
	700 mA	69W	R2	7,817	1	0	2	113	8,395	2	0	2	122	8,447	2	0	2	122
			R3	7,785	1	0	2	113	8,360	1	0	2	121	8,412	1	0	2	122
			R4	7,795	1	0	2	113	8,370	1	0	2	121	8,423	1	0	2	122
			R5	8,273	3	0	1	120	8,883	3	0	2	129	8,939	3	0	2	130
			R5VS	8,302	3	0	0	120	8,915	3	0	0	129	8,970	3	0	0	130
40C (40 LEDs)	530 mA	71W	R2	8,156	2	0	2	115	8,758	2	0	2	123	8,812	2	0	2	124
			R3	8,122	1	0	2	114	8,722	2	0	2	123	8,776	2	0	2	124
			R4	8,132	1	0	2	115	8,732	1	0	2	123	8,787	1	0	2	124
			R5	8,630	3	0	2	122	9,268	3	0	2	131	9,326	3	0	2	131
			R5VS	8,661	3	0	0	122	9,300	3	0	0	131	9,358	3	0	0	132
	700 mA	94W	R2	10,286	2	0	2	109	11,045	2	0	2	118	11,114	2	0	2	118
			R3	10,244	2	0	2	109	11,000	2	0	2	117	11,069	2	0	2	118
			R4	10,256	2	0	2	109	11,013	2	0	2	117	11,082	2	0	2	118
			R5	10,885	3	0	2	116	11,688	3	0	2	124	11,761	3	0	2	125
			R5VS	10,923	3	0	0	116	11,729	3	0	0	125	11,803	3	0	0	126
60C (60 LEDs)	530 mA	103W	R2	11,997	2	0	2	116	12,882	2	0	2	125	12,963	2	0	2	126
			R3	11,947	2	0	2	116	12,829	2	0	2	125	12,909	2	0	2	125
			R4	11,962	2	0	2	116	12,845	2	0	2	125	12,925	2	0	2	125
			R5	12,695	4	0	2	123	13,632	4	0	2	132	13,717	4	0	2	133
			R5VS	12,740	3	0	0	124	13,680	3	0	0	133	13,766	3	0	0	134
	700 mA	137W	R2	14,927	2	0	2	109	16,029	3	0	3	117	16,130	3	0	3	118
			R3	14,866	2	0	3	109	15,964	2	0	3	117	16,063	2	0	3	117
			R4	14,884	2	0	3	109	15,983	2	0	3	117	16,083	2	0	3	117
			R5	15,797	4	0	2	115	16,963	4	0	2	124	17,069	4	0	2	125
			R5VS	15,852	3	0	1	116	17,023	4	0	1	124	17,129	4	0	1	125

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-122°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **KACM LED 60C** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.94	0.91	0.84

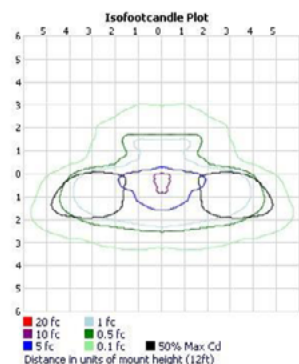
Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
20	530	35W	0.30	0.18	0.16	0.15	N/A	
	700	46W	0.39	0.23	0.20	0.18	0.15	0.12
30	530	53W	0.44	0.26	0.23	0.20	N/A	
	700	69W	0.58	0.34	0.29	0.26	0.21	0.16
40	530	71W	0.60	0.35	0.32	0.29	0.21	0.16
	700	94W	0.79	0.46	0.41	0.36	0.27	0.20
60	530	103W	0.87	0.50	0.44	0.39	0.29	0.22
	700	137W	1.15	0.66	0.58	0.51	0.40	0.29

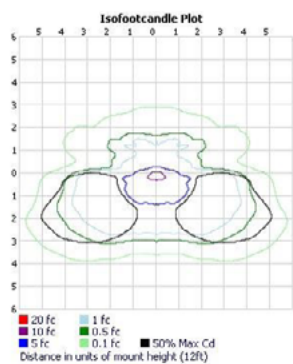
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KACM LED homepage](#).

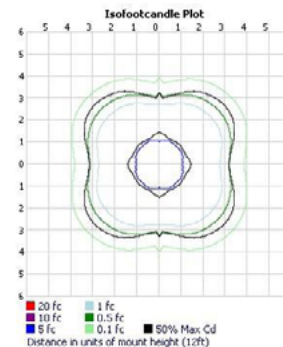
Isofootcandle plots for the KACM LED 40C 700 40K XX MVOLT. Distances are in units of mounting height (12').



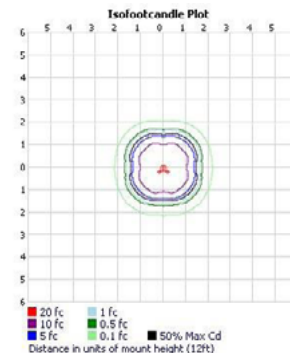
KACM LED 40C 700 40K R2 MVOLT



KACM LED 40C 700 40K R3 MVOLT



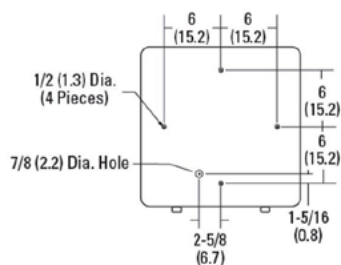
KACM LED 40C 700 40K R5 MVOLT



KACM LED 40C 700 40K R5VS MVOLT

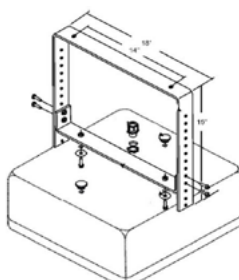
Mounting

TOP VIEW



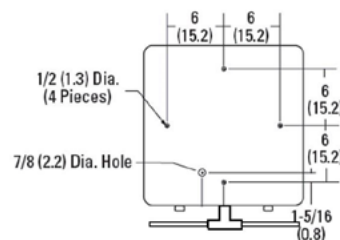
SRM
Surface mount

SIDE VIEW



YK
Yoke/trunnion mount

TOP VIEW



TC
Through-wire conduit tee
(Provided by others)

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings and long life of the KACM LED surface-mount luminaire make it a reliable choice for illuminating parking garages, convenience stores, hotels, and canopy walkways.

CONSTRUCTION

Single-piece die-cast, aluminum housing with contoured edges has a 0.12" nominal wall thickness. Die-cast door frame has an impact-resistant, tempered glass lens that is fully gasketed with one-piece tubular silicone.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Precision-molded refractive acrylic lenses housed behind the door frame lens are available in 5 distributions. Light engines are available in 3000K (70 CRI min.), 4000K (70 CRI min.), 5000K (70 CRI min.) configurations.

ELECTRICAL

Light engines consist of 20, 34, 40, or 60 high efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of over 100,000 hours with <1% failure rate. Internal 10kV surge protection meets a minimum Category C low operation per ANSI/IEEE C62.41.2).

INSTALLATION

Standard configuration utilizes four 1/2 " mounting holes and one 7/8" electrical connection hole located on top for surface mounting (hardware included). Mount on concrete, steel, or aluminum only. Mount on covered ceilings only. Not for use in dwellings. Also available with a through-wire conduit (conduit/outlet) tee option or a yoke/trunnion mount option.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is rated IP65 for outdoor applications. Rated for -40°C minimum ambient conditions. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.